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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/493,012	01/28/2000	Osamu Hori	0039-7540-2SRD	1658

22850 7590 08/07/2003

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EXAMINER
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CARTER, AARON W

ART UNIT	PAPER NUMBER
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2625

DATE MAILED: 08/07/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/493,012

Applicant(s)

HORI ET AL.

Examiner

Aaron W Carter

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 30 May 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-54 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-54 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 January 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

1. This action is responsive to papers filed on May 30, 2003.

#### ***Response to Amendment***

2. In response to applicant's amendment received on May 30, 2003, all requested changes to the claims have been entered. Claims 31-54 have been added.

#### ***Response to Arguments***

3. Applicant's arguments, see Amendment A, filed May 30, 2003, with respect to the rejection(s) of claim(s) 1, 9, 12, 15, 19, 22, 25, and 28 under 35 USC 102(e) have been fully considered, however based upon the amendment to the claims/broadening of the claims with the addition of the phrase "with at least one of", a new ground(s) of rejection is made in view of USPN 6,374,260 to Hoffert et al. ("Hoffert").

#### ***Claim Objections***

4. Claim 21 is objected to because of the following informalities:

On line 2 the word "stoned" should be changed to "stored". Appropriate correction is required.

#### ***Claim Rejections - 35 USC § 102***

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4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-18, 22-27, 31-42, and 46-51 are rejected under 35 U.S.C. 102(e) as being anticipated by USPN 6,374,260 to Hoffert et al. ("Hoffert").

As to claim 1, Hoffert discloses an image information describing method comprising:  
sampling video information including video frames with at least one of variable time interval parameter (column 12, line 63 – column 13, line 12 and column 14, lines 19-37, wherein frame blocks are first chosen at evenly spaced points, then varied according to frame content) and a variable size parameter (column 11, line 61 – column 12, line 25, especially column 12, lines 4-8) to obtain thumbnail frames (column 12, lines 27-40); and  
describing attribute information for specifying each of the video frames corresponding to each of the thumbnail frames as thumbnail information (column 13, lines 30-41).

As to claim 9, 12, 15, 16, 22, and 25 Hoffert discloses a video retrieval method for retrieving video information including a plurality of video frames by employing thumbnail information concerning a plurality of thumbnail frames (column 12, lines 27-40) obtained by sampling video information with at least one of a variable time interval parameter (column 12, line 63 – column 13, line 12 and column 14, lines 19-37, wherein frame blocks are first chosen at

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evenly spaced points, then varied according to frame content) and a variable size parameter (column 11, line 61 – column 12, line 25, especially column 12, lines 4-8), the video retrieval method comprising:

describing, as the thumbnail information, attribute information containing at least first position information indicative of a position on a time axis in order to specify the video frame corresponding to each of the thumbnail frames (column 12, line 63 – column 13, line 12 and column 7, line 30-33); and

retrieving the thumbnail frame having the closest first position information to a second position information indicative of a position on the time axis of a desired video frame of the predetermined video information (column 14, lines 17-36, wherein a frame is chosen that is the closest first position to a video segment meeting some predetermined criteria which corresponds to a threshold, such as degree of change in motion, brightness, or contrast, which corresponds to scene change).

As to claims 31, 34, 37, 40, 46, and 49, Hoffert discloses the image information describing method according to claim 1, the sampling comprising:

Sampling a video frame in the video information (column 12, line 63 – column 13, line 12);

Extracting a part of the sampled video frame (column 13, lines 30-41); and

Sampling the extracted part (column 14, lines 17-36).

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As to claims 32, 35, 38, 41, 47, and 50, Hoffert discloses the image information describing method according to claim 1, the sampling comprising:

Sampling a video frame in the video information (column 12, line 63 – column 13, line 12); and

Reducing a resolution of the sampled video frame (column 11, lines 61 – column 12, line 21).

As to claims 33, 36, 39, 42, 48, and 51, Hoffert discloses the image information describing method according to claim 1, the sampling comprising:

Sampling a video frame in the video information (column 12, line 63 – column 13, line 12); and

Reducing a size of the sampled video frame (column 11, lines 61 – column 12, line 21).

As to claim 2, Hoffert discloses the image information describing method according to claim 31, further comprising describing additional information contains scene change position information of the video information (column 11, lines 29-33, column 13, lines 30-48, and column 14, lines 17-36, wherein info relating to brightness, contrast and motion are compared with predetermined criteria which corresponds to detecting scene change position).

11. As to claim 3, Hoffert discloses the image information describing method

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according to claim 31, further comprising additional information contains frame change value information of the video information (column 7, lines 30-33, wherein frame rate corresponds to frame change value).

As to claim 4, Hoffert discloses the image information describing method according to claim 31, wherein the attribute information contains position information indicative of a position on a time axis of the video frame corresponding to the thumbnail frame (column 6, lines 24-29 and column 12, line 63 – column 13, line 12).

As to claim 5, Hoffert discloses the image information describing method according to claim 31, wherein the attribute information contains information concerning the size of the thumbnail frame (column 7, lines 30-33 and column 11, lines 61 – column 12, line 21).

As to claim 6, Hoffert discloses the image information describing method according to claim 31, wherein the thumbnail information contains information concerning the resolution of the thumbnail frame (column 6, lines 24-29 and column 11, lines 61 – column 12, line 21).

As to claim 7, Hoffert discloses the image information describing method according to claim 31, wherein the thumbnail information contains image data of the thumbnail frame or a pointer for the thumbnail frame (column 12, line 63 – column 13, line 12, wherein it is inherent that a pointer to various video segments is contained in the thumbnail information since the user is able to access portion as they wish).

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As to claim 8,11,14,18,24 and 27, Steele discloses the image information describing method according to claim 31, wherein the plurality of the thumbnail frames are stored as one item of the thumbnail information (column 7, lines 16-35 wherein content previews corresponds to the thumbnail images and content attributes along with the rest of the file corresponds to the thumbnail information, which make up one item altogether).

As to claim 10,13,17,23 and 26, Hoffert discloses the video retrieval method according to claim 9, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size (column 14, lines 17-36, wherein thumbnail frames consist of a frame obtained by sampling a set attributes relating to the frame of the video information with arbitrary time interval and size).

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 19-21, 28-30, 43-45, and 52-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoffert in view of USPN 5,995,707 to Lee.

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As to claims 19 and 28, Hoffert discloses a video reproducing method for reproducing video information including a plurality of video frames by employing thumbnail information concerning a plurality of thumbnail frames (column 12, lines 27-40) obtained by sampling video information with at least one of a variable time interval parameter (column 12, line 63 – column 13, line 12 and column 14, lines 19-37, wherein frame blocks are first chosen at evenly spaced points, then varied according to frame content) and a variable size parameter (column 11, line 61 – column 12, line 25, especially column 12, lines 4-8), the video retrieval method comprising:

describing, as the thumbnail information, attribute information containing at least first position information indicative of a position on a time axis in order to specify the video frame corresponding to each of the thumbnail frames (column 12, line 63 – column 13, line 12 and column 7, line 30-33); and

describing frame change value information of the video information as additional information (column 7, lines 30-33, wherein frame rate corresponds to frame change value); Hoffert neglects to explicitly disclose reproducing the original video frames at a variable speed or changing a reproduction speed of the thumbnail frames according to the frame change value information. However, Lee teaches us of an improved speed change reproduction apparatus that stores speed change data into a plurality of frames (column 4, lines 20-29). Therefore it would have been obvious to one of ordinary skill in the art to combine the invention of Hoffert and the teachings of Lee. This would provide the invention with the advantage of achieving better resolution during a speed change reproduction operation (column 4, lines 22-24).

As to claims 43 and 52, please refer to rejections made for claim 31 above.

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As to claims 44 and 53, please refer to rejections made for claim 32 above.

As to claims 45 and 54, please refer to rejections made for claim 33 above.

As to claims 20 and 29, please refer to rejections made for claim 10 above.

As to claims 21 and 30, please refer to rejections made for claim 11 above.

### ***Conclusion***

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

### ***Contact Information***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron W. Carter whose telephone number is 703.306.4060. The examiner can normally be reached by telephone between 8am - 4:30pm (Mon. – Fri.).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 703.308.5246. The fax phone number for the organization where the application or proceeding is assigned is 703.872.9314 for regular communications.


Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.306.0377.

Aaron W. Carter  
Examiner  
Art Unit 2625

Awc  
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August 5, 2003

  
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